

Behavioral Health Troffers: VL-RZCD-LED

Ligature Resistant 1x4, 2x2 and 2x4 Recessed LED Luminaires for Behavioral Health Facilities.

- **IP65 Rated**
- **Ligature Resistant Zero Clearance Door Frame Design**
- **Polycarbonate Lensing & Tamper-Resistant Fasteners Standard**
- **0-10V Dimming Down to 1% Standard**
- **Recessed Housing Suitable for Grid or Flange Installation**
- **B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation**



DISCLAIMER: Although KURTZON has prepared the information contained in this document with all due care, KURTZON does not warrant or represent that the information is free from errors or omission. Whilst the information is considered to be true and correct at the date of publication, changes in circumstances after the time of publication may impact on the accuracy of the information. The information may change without notice and KURTZON is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

ORDERING GUIDE

| Series | Material | Size | Row Qty. | LED Type | CCT/CRI | Voltage | Outer Lens/Inner Lens | Options | | | | | | | |
|---------|--|-----------------|--------------|----------|-----------|---------|---------------------------------|--|--|--|--|--|--|--|--|
| VL-RZCD | | | | | | | | | | | | | | | |
| Series | Material | Size | Light Source | | | Voltage | Optics LED Side / Room Side | Options | | | | | | | |
| | | | Row Qty. | LED Type | CCT/CRI | | | | | | | | | | |
| VL-RZCD | 3 White 430 SS Hsg. & Polished 304 SS Door | 1x4 1x4 Housing | 1 | LEDR | 83 CRI: | 120V | Prismatic | SW Wet Location Hub Supplied (not installed) | | | | | | | |
| | | | 2 | LEDH | 830 3000K | 277V | | 1 .125" P12 Polycarbonate | PxL* Programmed to User Specified Lumen Value. | | | | | | |
| | 4 White AL Hsg. & Polished 304 SS Door | 2x2 2x2 Housing | 2 | LEDHF | 835 3500K | UNV | 2 .140" P12 High Impact Acrylic | PxW* Programmed to User Specified Wattage Value. | | | | | | | |
| | | | | | 840 4000K | 347V* | 3 .156" P12 Polycarbonate | 10KV 10KV Parallel Surge Protection (One Supplied Per Circuit) | | | | | | | |
| | 7 White AL Hsg. & White CRS Door | 2x4 2x4 Housing | 3 | | 850 5000K | 347V* | 4 .156" P73 Tempered Glass | GTD Generator Transfer Device | | | | | | | |
| | | | 4 | | 90+ CRI: | | Non-Prismatic | WHIP Must Specify Length and Wire Qty | | | | | | | |
| | 8 White 430 SS Hsg. & White CRS Door | | | | | | | OCCMW Internal microwave OCC Sensor | | | | | | | |
| | | | | | | | | FC Fuse & Holder (One Supplied Per Circuit) | | | | | | | |
| | | | | | | | | EM10** 10W Integral LED EM (Specify Input Voltage) | | | | | | | |
| | | | | | | | | EM20 20W Remote LED EM (Specify Input Voltage) | | | | | | | |
| | | | | | | | | GG 1/8" Thick Grid Gasket (Provided Loose) | | | | | | | |
| | | | | | | | | WHT White Finished Door & HSG | | | | | | | |
| | | | | | | | | AMW Anti-Microbial White Powdercoat | | | | | | | |
| | | | | | | | | AH Allen Head SS Tamperproof Fasteners | | | | | | | |
| | | | | | | | | TPWHT Tamper Resistant Torx Fasteners Painted White | | | | | | | |
| | | | | | | | | **Note: EM10 remote mount for 2x2 4/LEDH & 4/LEDHF selections | | | | | | | |
| | | | | | | | | ***Note: EM10 remote mount for 2x4 4/LEDHF selections | | | | | | | |
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Ordering Notes, If Applicable

Behavioral Health Troffers: VL-RZCD-LED

Ligature Resistant 1x4, 2x2 and 2x4 Recessed and Surface Mounted LED Luminaires for Behavioral Health Facilities.

SPECIFICATIONS

HOUSING: One piece, hole free, robotically seam welded housing has flattened knockouts for a superior seal. Housings are available in .040" 3003 Aluminum or 20Ga 430 Stainless Steel.

DOOR FRAME: One piece zero clearance interference fit doorframe regressed into housing and designed to prevent ligature. Secured by captive Torx tamperproof fasteners and hinged to housing with aircraft cables. Available in .040" 3003 Powder coated Alum. , 20Ga 304 Polished SS, or 18Ga 1008 Powder coated CRS.

GASKETS: Closed cell microcellular extruded gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system. GG option provides a loose 1/8" thick adhesive backed gasket intended to adhere to the top face of a suspended grid ceiling for grid profiles that do not already have gasket on them.

OPTICS: Select up to 2 layers of lensing up to a combined thickness of .375". Available in flat or prismatic polycarbonate, tempered glass, or high impact acrylic.

LEDS: Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

DRIVERS: Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% and rated -20C (-4F) They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications.

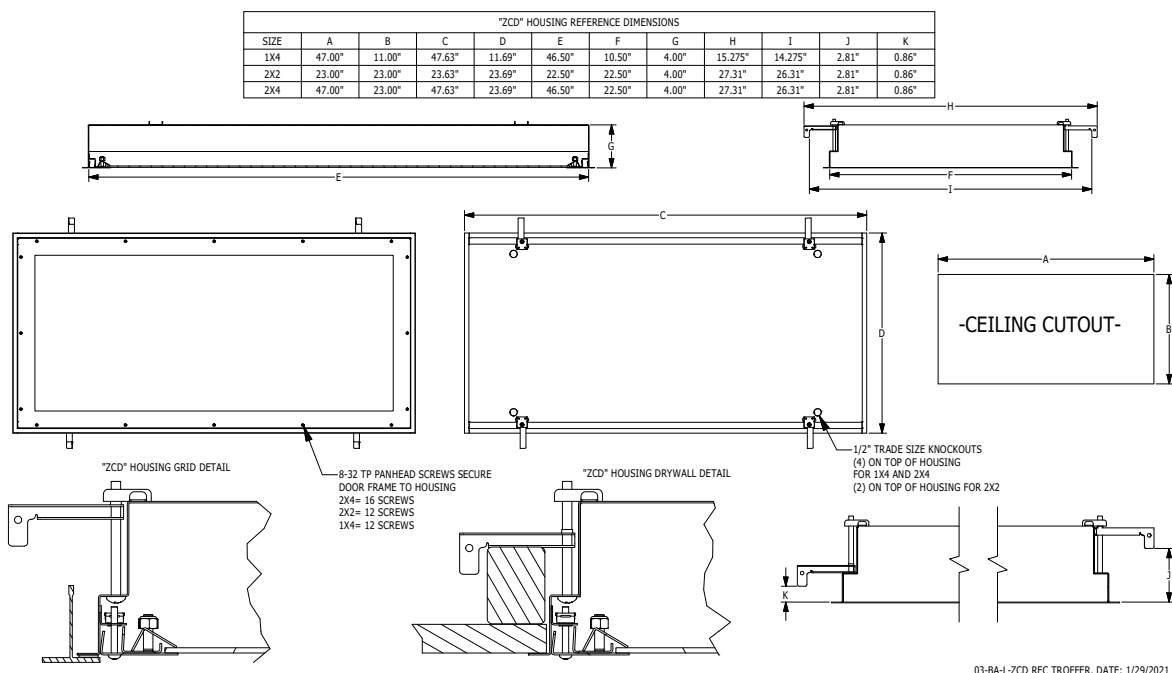
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Suitable for recessed Non-IC installation into covered ceilings. Fixtures are supplied with .875" flattened knockouts for supply entry. Recessed housings have (4) swing out toggle arms that are used to draw the fixture in to the ceiling for hard lid installation without the need for a yoke hanger. The toggle arm adjuster bolts are accessible from the room side of the luminaire and the actual toggles can be used as means of establishing a seismic support for lay in ceiling installations. Confirm ceiling compatibility with dimension drawings below.

FINISH: Stainless steel door frames are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powdercoat with 1000hr salt spray test per ASTM B117. AMW option provides a white anti-microbial polyester powder coat to all exposed surfaces.

LISTINGS: IP65 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. NSF2 Listed for Non-Food & Splash Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

PRODUCT DRAWINGS



Behavioral Health Troffers: VL-RZCD-LED

Ligature Resistant 1x4, 2x2 and 2x4 Recessed and Surface Mounted LED Luminaires for Behavioral Health Facilities.

ENERGY DATA

| POLY INSET-FGRS-LED TROFFER (APPROX ¹ LUMENS DELIVERED) | | | | | | | | | | |
|--|---------------|------------------------|--------------------|-----------------------|--------------|-----------------------|--------------------|-----------------------|---------------------------|------------------|
| ENCLOSURE SIZE | LIGHT PACKAGE | 80 CRI (3000K - 5000K) | | | | 90 CRI (3500K, 4000K) | | | | STANDARD DIMMING |
| | | LUMENS | WATTS ² | EFFICACY ³ | MAX AMB TEMP | LUMENS | WATTS ² | EFFICACY ³ | MAX AMB TEMP ⁴ | |
| 1X4 | 1LED R | 2,731 | 29 | 94 | 45°C (113°F) | 2,632 | 29 | 91 | 45°C (113°F) | 0-10V 1% |
| 1X4 | 2LED R | 5,460 | 55 | 99 | 45°C (113°F) | 5,263 | 56 | 94 | 45°C (113°F) | 0-10V 1% |
| 1X4 | 2LED H | 10,579 | 109 | 97 | 35°C (95°F) | 10,103 | 109 | 93 | 35°C (95°F) | 0-10V 1% |
| 1X4 | 2LED HF | 15,611 | 153 | 102 | 35°C (95°F) | 13,009 | 183 | 71 | 35°C (95°F) | 0-10V 1% |
| 1X4 | EM10 | 940-1020 | 4 | NA | 40°C (104°F) | 710-940 | 4 | NA | 40°C (104°F) | NA |
| 2X2 | 2LED R | 2,717 | 29 | 94 | 45°C (113°F) | 2,622 | 29 | 90 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 3LED R | 4,076 | 42 | 97 | 45°C (113°F) | 3,932 | 42 | 94 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 2LED H | 5,346 | 55 | 97 | 40°C (104°F) | 5,097 | 55 | 93 | 40°C (104°F) | 0-10V 1% |
| 2X2 | 4LED R | 5,435 | 55 | 99 | 45°C (113°F) | 5,243 | 56 | 94 | 45°C (113°F) | 0-10V 1% |
| 2X2 | 3LED H | 8,020 | 80 | 100 | 40°C (104°F) | 7,648 | 81 | 95 | 35°C (95°F) | 0-10V 1% |
| 2X2 | 4LED H | 10,693 | 109 | 98 | 40°C (104°F) | 10,194 | 109 | 94 | 35°C (95°F) | 0-10V 1% |
| 2X2 | 4LED HF | 16,244 | 153 | 106 | 35°C (95°F) | 13,437 | 184 | 73 | 35°C (95°F) | 0-10V 1% |
| 2X2 | EM10 | 940-1060 | 4 | NA | 40°C (104°F) | 730-950 | 4 | NA | 40°C (104°F) | NA |
| 2X4 | 2LED R | 5,912 | 55 | 107 | 45°C (113°F) | 5,657 | 56 | 101 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 3LED R | 8,868 | 83 | 107 | 45°C (113°F) | 8,485 | 83 | 102 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 2LED H | 11,670 | 109 | 107 | 40°C (104°F) | 11,089 | 109 | 102 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LED R | 11,824 | 111 | 107 | 45°C (113°F) | 11,313 | 113 | 100 | 45°C (113°F) | 0-10V 1% |
| 2X4 | 3LED H | 17,505 | 164 | 107 | 40°C (104°F) | 16,634 | 164 | 101 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LED H | 23,339 | 220 | 106 | 40°C (104°F) | 22,178 | 220 | 101 | 40°C (104°F) | 0-10V 1% |
| 2X4 | 4LED HF | 35,851 | 305 | 118 | 35°C (95°F) | 31,103 | 373 | 83 | 35°C (95°F) | 0-10V 1% |
| 2X4 | EM10 | 1060-1180 | 4 | NA | 40°C (104°F) | 830-1020 | 4 | NA | 40°C (104°F) | NA |

¹ DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @ 25°C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OPTIONS ARE CHOSEN

² WATTAGE IS MEASURED WITH 4000K SELECTION @ 120VAC AND Tambient = 25°C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS

³ EFFICACY CALCULATED USING 4000K CCT DATA.

⁴ MAX AMBIENT TEMP RATING, NON-IC INSTALLATION. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION

⁵ 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.